

Headquarters
U.S. Army Armor Center and Fort Knox
Fort Knox, Kentucky 40121-5000
26 November 1996

Fort Knox Reg 200-1

Environmental Quality

WASTEWATER PRETREATMENT PROGRAM

Summary. This regulation provides policy and guidelines concerning the Fort Knox Wastewater Pretreatment Program.

Applicability. This regulation applies to all U.S. Army Armor Center (USAARMC) subordinate commands, directorates, staff offices/departments, and partners in excellence, this headquarters.

Supplementation. Supplements are prohibited without prior approval from the Director of Public Works, Environmental Management Division.

Suggested improvements. The proponent of this regulation is the Director of Public Works, Environmental Management Division. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Commander, USAARMC and Fort Knox, ATTN: ATZK-PWE, Fort Knox, KY 40121-5000.

1. Purpose. This regulation prescribes policies, procedures, and guidelines for implementation of the USAARMC and Fort Knox Wastewater Pretreatment Program (WPP). The objective of the WPP is to prevent violation of the Clean Water Act by preventing the introduction of pollutants into the Wastewater Treatment Plant which could interfere with its operation; and/or to prevent the pass-through of pollutants which could cause violation of the operating permit limitations and/or applicable water quality standards. The following appendixes establish standards and enforcement details:

- a. Appendix A. List of Pollutants to be Regulated.
- b. Appendix B. List of Typical Sampling Locations.
- c. Appendix C. Monitoring Plan.
- d. Appendix D. Sample, Noncompliance Notification.

These Appendixes are noninclusive and will be updated and/or modified as required to maintain an effective Pretreatment Program.

2. References.

- a. Title 40 CFR Part 403, General Pretreatment Regulations.
- b. 401 KAR 5, Water Quality.

Fort Knox Reg 200-1 (26 Nov 96)

c. Wastewater Analysis Survey, August 1995, Jaycor Environmental.

d. Guidance Manual for Publicly Owned Treatment Works (POTW) Pretreatment Program Development, October 1983, United States Environmental Protection Agency.

3. Policy. This is a mandatory program. Managers/supervisors at all levels must pursue a vigorous prevention program for the discharge of pollutants either intentionally or unintentionally into the Fort Knox sewer system. Positive action will be taken to prevent these discharges through training, education, proper shop operations, adoption of new technology, and aggressive leadership. Soldiers and civilians are subject to potential criminal and civil sanctions through the courts for violation of Federal and State laws. Also, further administrative measures (civilian and military) may be taken by the command for violations of law or this regulation, independent of any judicial action.

4. Responsibilities.

a. The Commander, USAARMC will:

- (1) Ensure the WPP is established.
- (2) Ensure funding is made available to implement and maintain the WPP.
- (3) Ensure that Wastewater Discharge Permit limits are met.
- (4) Ensure that all elements of the WPP are complied with.

b. The Directorate of Public Works, Operations and Maintenance Division will:

- (1) Conduct sampling.
- (2) Conduct inspections.
- (3) Enforce the WPP standards with any entity discharging into the Fort Knox sewer system utilizing entity contracts as enforcement basis.
- (4) Report to Environmental Management Division.

c. The Directorate of Public Works, Environmental Management Division will:

(1) Regulate WPP, i.e., issue letters of noncompliance, recommend awards, provide environmental training, and maintain records.

(2) Coordinate sampling and testing.

(3) Conduct inspections.

(4) Provide assistance and advice on water quality compliance.

d. Commanders, directors and chiefs, staff offices/departments will:

(1) Ensure individual is appointed to coordinate the WPP within their organization and act as the central point of contact. Provide the name and phone number to the Environmental Management Division, DPW, within 90 days from the date of this regulation.

(2) Ensure that all spills are properly reported.

(3) Submit new work elements and procedures including all operational changes relating to potential discharges into the sewer system to the Environmental Management Division 90 days before they are placed in operation for environmental review and approval.

(4) Ensure that all elements including all procedures, listed in paragraph 5 below, of this program are complied with.

e. The Staff Judge Advocate will provide advice and assistance on enforcement issues, including adverse actions against individual violations of laws or this regulation.

f. The Civilian Personnel Officer (CPO) will provide personnel management information, advice and assistance to managers and supervisors when executing and enforcing the provisions of this regulation.

5. Procedures.

a. Identify all materials containing any of the regulated substances listed in appendix A.

b. Develop maintenance/operating procedures to ensure that these materials are not disposed either directly or indirectly into the wastewater sewer system in quantities that would violate the standards described in appendix A, Pretreatment Standards.

Fort Knox Reg 200-1 (26 Nov 96)

c. Copies of these inventories and procedures should be submitted to the Environmental Management Division within 180 calendar days from the date of this regulation.

FOR THE COMMANDER:



OFFICIAL:
DOUGLAS M. HARRIS
Colonel, Armor
Garrison Commander

ROBERT L. BROOKS
Director, Information Management

DISTRIBUTION:
A plus
100 - ATZK-PWE

CF:
DCG, USAARMC

WASTEWATER PRETREATMENT PROGRAM

REGULATED POLLUTANTS

PRETREATMENT STANDARDS

Parameter	Average Daily Limit at sampling location. (Mg/1 except as noted)
Arsenic	0.1
Cadmium	0.004
Chromium, Total	0.011
Copper	0.012
Cyanide	1.20
Mercury	0.0002
Lead	0.01
Nickel	0.1
Silver	0.0025
Zinc	.005
Pesticides	0.0
Iron	0.5
Temperature (Degrees Fahrenheit)	104 F
Flash Point (Degrees Fahrenheit)	140 F
BOD (Biological Oxygen Demand)	500.00
TSS (Total Suspended Solids)	500.00
PH- (Std. Units)	5.5-9.0
NH3 (Ammonia Nitrogen)	60.0
Oil and Grease	100.00
COD (Chemical Oxygen Demand)	1000.00

Fort Knox Reg 200-1 (26 Nov 96)

PCBs	0.0
Chloroform	0.0
Methylene Chloride	0.0

TYPICAL SAMPLING LOCATIONS

1. All Motor Parks
2. Boatwright Maintenance Complex
3. All Photo Labs
4. Print Plant
5. Hospital Facilities
6. DPW Shops
7. Transportation Motor Pool
8. Dental Clinics
9. Wastewater Treatment Plant
10. Outside Discharges
11. Selected Schools
12. Airfield
13. Mess Halls/School Cafeterias
14. Portable Water Supplies

MONITORING PLAN

The Monitoring Plan will consist of both visual inspections of facility operations and sampling of facility discharges.

a. Inspections: Formal facility inspections will be conducted semi-annually by the DPW Environmental Management Division and informally as required. Inspections will consist of evaluating the following:

- (1) Changes in facility operation.
- (2) Review of all material and waste products.
- (3) Spill control plans and response records.
- (4) Evaluate compliance with all environmental laws and regulations.
- (5) Housekeeping.
- (6) Sampling results/records.

b. Sampling Plan:

- (1) SCHEDULED - All facilities at least quarterly.
- (2) UNSCHEDULED - Random.
- (3) DEMAND - When it has been discovered that a violation has or might occur.

c. Flow will be measured as required to quantify waste streams.

NOTICE OF NONCOMPLIANCE WITH FORT KNOX WASTEWATER PRETREATMENT PROGRAM

Date of Notice

Organization

Address

On _____, your discharge was sampled. The resulting data showed you to be in violation of the Fort Knox Wastewater Pretreatment Program Regulation (Fort Knox Reg _____). The pollutant in violation was _____. Please contact this office with your plan for correcting this violation within 5 working days from the Date of Notice.

ALBERT W. FREELAND
Chief, Environmental Management
Division